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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585,733	07/12/2006	Takeshi Ichikawa	03500.109228.	6040
	7590 06/10/200 CELLA HARPER &	EXAMINER		
30 ROCKEFELLER PLAZA			AHMED, SELIM U	
NEW YORK, P	NEW YORK, NY 10112		ART UNIT	PAPER NUMBER
			2826	
			MAIL DATE	DELIVERY MODE
			06/10/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/585,733	ICHIKAWA, TAKESHI			
		Examiner	Art Unit			
		SELIM AHMED	2826			
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the	e correspondence address			
WHIC - Exter after - If NC - Failu Any (	ORTENED STATUTORY PERIOD FOR REPLEHEVER IS LONGER, FROM THE MAILING Ensions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. Poeriod for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailing datent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION  136(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the course the application to become ABANDO	ON.  timely filed  om the mailing date of this communication.  NED (35 U.S.C. § 133).			
Status						
1)[\	Responsive to communication(s) filed on 03 I	March 2009				
•	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.					
3)	·—					
٥,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
· ·	Claim(s) 11-18 is/are pending in the application	nn				
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed. 6) Claim(s) <u>11-18</u> is/are rejected.					
· ·	Claim(s) is/are rejected.  Claim(s) is/are objected to.					
•	· · ———	or election requirement				
8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers					
•	The specification is objected to by the Examin					
10)⊠ The drawing(s) filed on <u>03 March 2009</u> is/are∶ a)⊠ accepted or b)⊡ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority ι	ınder 35 U.S.C. § 119					
a)[	Acknowledgment is made of a claim for foreig  All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureasee the attached detailed Office action for a list	nts have been received.  Its have been received in Applic  Drity documents have been rece  Au (PCT Rule 17.2(a)).	ation No ived in this National Stage			
Attachmen	t(s) e of References Cited (PTO-892)	4) ☐ Interview Summe	ary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
Information Disclosure Statement(s) (PTO/SB/08)   S)   Notice of Informal Patent Application   Notice of Information   Notic						

## **DETAILED ACTION**

 Applicant's response filed on 03/03/2009 is acknowledged. Applicants have amended claims 11-16; canceled claims 1-10; and added new claims 17, 18.
 Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

 Claims 11-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With regard to claims 11, 12, and 18, the term "a lowest potential region" is a relative term which renders the claim indefinite. The term "a lowest potential region" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

The dependent claims 13-17 inherit the deficiencies.

Appropriate correction is required.

## Allowable Subject Matter

3. Claims 11-18 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

The following is a statement of reasons for the indication of allowable subject matter:

With regard to claim 11, the prior art of records fail to teach or suggest a method of manufacturing a semiconductor apparatus particularly with forming a first conductive type impurity region in respective channel positions of said buried channel type MOS transistor and said surface channel type MOS transistor in a same step as in the combinations of claim 11.

The dependent claims 12-17 are allowable for at least the same reason.

With regard to claim 18, the prior art of records fail to teach or suggest a method of manufacturing a solid state image pickup device particularly with forming a first conductive type impurity region in respective channel portions of said buried channel type MOS transistor and said surface channel type MOS transistor, such that "a lowest potential region" is arranged in an area that is at a predetermined depth from a surface of said image pickup device as in the combinations of claim 18.

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## Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SELIM AHMED whose telephone number is (571)270-5025. The examiner can normally be reached on 9:00 AM-6:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sue Purvis can be reached on (571) 272-1236. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SA

/Evan Pert/ Primary Examiner, Art Unit 2826